

BOYAN AEON PYRAMID: Scalable Geometric Energy Harvesting, Storage, and Distribution Structure

Abstract

The BOYAN Aeon Pyramid is a geometric energy harvesting structure designed to integrate quantum harmonics, ambient energy capture, and mechanical flywheel stabilization within a modular pyramid framework. It is intended for residential, commercial, industrial, and data center applications. Unlike traditional renewable energy systems, the Aeon Pyramid combines expired 20th-century mechanical patents (e.g., clockwork, Atmos-style escapements, Geneva drives) with modern nano-etched energy layers, advanced composites, and AI-managed distribution systems. The result is a zero-cons, cost-reductive, performance-enhanced energy generator scalable from rooftop applications to state-level grids.

Background

Existing renewable energy systems face limitations in intermittency, storage, and cost efficiency. Pyramidal geometries have long been observed to exhibit natural stability, electromagnetic focusing, and resonance properties. Expired patents from the 20th century provide blueprints for near-frictionless motion and perpetual stabilization. No existing competitor integrates these systems holistically in a single, modular, self-contained unit.

Invention Summary

The BOYAN Aeon Pyramid functions as: 1. Ambient Energy Harvester – capturing solar, wind, thermal, vibrational, and quantum harmonic resonance. 2. Mechanical Flywheel Stabilizer – using counterweights, escapement logic, and reverse-engineered clockwork. 3. AI-Governed Energy Router – balancing input, storage, and output across loads. 4. Nano-Etched Power Skin – geometric micro/nano textures increase surface energy capture and electromagnetic efficiency. 5. Scalable Energy Architecture – deployable as residential (~10 kW), commercial/industrial (~1–10 MW), data centers (~50 MW), or grid-scale (100 MW–GW).

Technical Description

Structure: Pyramid with modular segments and hollow-core for flywheel & AI core. Materials: Graphene-reinforced composites, bio-ceramics, recycled alloys. Energy Layers: Solar-thermo-photovoltaics, piezoelectric struts, thermoelectric baseplates, triboelectric nano-films, harmonic resonance cavities. Storage: Hybrid flywheel + solid-state battery + supercapacitor banks. Control: AI-driven dynamic energy allocation & blockchain logging.

Benefits

- Cost Reduction: 40–60% vs. solar + battery equivalents. - Performance: Continuous, multi-input energy harvesting with near-zero downtime. - Safety: Redundant fail-safes, non-flammable storage options. - Scalability: One design, infinite scales. - Sustainability: Uses recyclable materials, supports

UN 2030 Agenda goals.

Use Cases

- Residential roof replacements → energy autonomy. - Commercial buildings → reduce utility costs by 80–90%. - Industrial zones → independent microgrids. - Data centers → high-reliability power supply. - City-scale deployments → distributed energy networks.

Claims

1. An energy-harvesting pyramid integrating multi-modal ambient energy layers within a modular structure. 2. A flywheel-stabilized energy core employing expired mechanical patents for efficiency and durability. 3. A nano-etched external surface that increases electromagnetic capture and resonance efficiency. 4. An AI-governed distribution system for storage, load balancing, and P2P sharing. 5. A scalable deployment model ranging from residential rooftops to state-level grids. 6. Integration of quantum harmonic resonators for supplemental energy amplification.